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TITLE: Method for the naturally formed layout of die - can
eliminate the antenna effect

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PRIORITY-DATA: 1993TW-0111050 (December 28, 1993)

PATENT-FAMILY:

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APPLICATION-DATA:

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ABSTRACTED-PUB-NO: TW 241391A

BASIC-ABSTRACT:

A Method for the naturally formed layout of die includes: 1. allocating ground metal area around the die at the time of metal layer layout, which is shortly connected with the diffusion area with high impurity concentration and the same conductive type as the substrate's. In the ground metal area there is one ground pad area for connecting external power source(Vdd or Vss) and some pad area for connecting with the internal circuit, and cross connecting wire on the ground metal area for conducting the high energy collected by pad at the time of metal layer etching to the ground metal area for escaping through cross connected metal wiring; 2. after completing metal layer etching, passivation photolithography, etching exposed pad and ground pad, applying proper voltage to ground pad and every pad can burn out the cross connected metal line so as to recover to the state that the pad and ground metal area separate, and by the above layout many effects such as follows: without increasing process, decreasing manufacturing cost and eliminating antenna effect etc. can be achieved.

TITLE-TERMS: METHOD NATURAL FORMING LAYOUT DIE CAN ELIMINATE ANTENNA EFFECT

DERWENT-CLASS: U11

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SECONDARY-ACC-NO:

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